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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/800,607	03/15/2004	Takuya Tsukagoshi	890050.469	1809
500	7590	09/20/2005	EXAMINER	
SEED INTELLECTUAL PROPERTY LAW GROUP PLLC 701 FIFTH AVE SUITE 6300 SEATTLE, WA 98104-7092			BOUTSIKARIS, LEONIDAS	
			ART UNIT	PAPER NUMBER
			2872	
DATE MAILED: 09/20/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/800,607	Applicant(s) TSUKAGOSHI, TAKUYA
	Examiner Leo Boutsikaris	Art Unit 2872

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.

 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.

 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

 Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 15 March 2004.

 2a) This action is **FINAL**. 2b) This action is non-final.

 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-7 is/are pending in the application.

 4a) Of the above claim(s) _____ is/are withdrawn from consideration.

 5) Claim(s) _____ is/are allowed.

 6) Claim(s) 1-7 is/are rejected.

 7) Claim(s) _____ is/are objected to.

 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

 10) The drawing(s) filed on 15 March 2004 is/are: a) accepted or b) objected to by the Examiner.

 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

 a) All b) Some * c) None of:

 1. Certified copies of the priority documents have been received.

 2. Certified copies of the priority documents have been received in Application No. _____.

 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>3/15/04; 9/13/04</u> .	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date: _____ 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) 6) <input type="checkbox"/> Other: _____
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DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3, 6-7 are rejected under 35 U.S.C. 102(e) as being anticipated by Horimai (US 2003/0063342).

Regarding claims 1, 6, Horimai discloses a system and a method for recording and reproducing optical information in and from a holographic storage medium, wherein the holographic recording medium comprises a recording layer 3 (Fig. 4) in which data is recorded as phase information by producing the interference of an object light beam 51L and a reference beam 52L (Fig. 7) in the recording layer 3 ([0146]), and an optical modulation pattern 6 periodically formed in a direction of a track on a surface located on the opposite side of the recording layer 3 as viewed in the direction of the signal beam

and reference beam incidence of the recording layer, wherein a separate light beam is emitted from the light source 25 to serve as a beam for servo control, such that said servo beam is focused onto the pattern 6 in order to produce clock servo signals ([0135]-[0137]).

Regarding claim 2, the servo beam is focused onto the pattern area 6 by lens 12. Furthermore, it is inherent that the beam's spot diameter is smaller than a period of the pattern (i.e., smaller than the pattern itself) since the servo beam is used for identifying the address of the specific location (see second to last line in [0133]), hence the beam cannot overlap several data locations.

Regarding claim 3, each pattern 6 is disposed adjacent to a data recording location, which implies that when successive data bits are sequentially recorded in adjacent locations of the recording layer, the track has shifted by an integer multiple of the period of the pattern.

Regarding claim 7, the optical modulation pattern has a concavo-convex shape.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 4-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Horimai (US 2003/0063342) in view of Kono (JP 2001-291242).

Horimai discloses all the limitations of said claims except for teaching the removal of noise incurred due to the passage of light through the optical modulation pattern, wherein a predetermined test pattern is recorded, it is then reproduced and its noise "signature" is subsequently removed from noisy image reproductions. Kono discloses a method for reducing the influence of noise caused by an optical recording medium, wherein a test light 1 for noise cancellation is used to record a pattern, and the difference between the reproduced pattern and other reproduced light is used to reduce the noise present in the reproduced images (see Abstract). It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the method taught by Kono to reduce the noise present in the reproduced data in Horimai's system, for achieving better signal-to-noise ratio during reading of the optical information stored in the holographic medium.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Art Unit: 2872

Claims 1-3, 6-7 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-2 of copending Application No. 10/827,152. Although the conflicting claims are not identical, they are not patentably distinct from each other because said claims of the '152 application are drawn to a holographic optical storage system wherein a periodic pattern is formed adjacent to the holographic recording layer for use in conjunction with a servo control beam.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dr. Leo Boutsikaris whose telephone number is 571-272-2308.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LEONIDAS BOUTSIKARIS
PRIMARY EXAMINER


Leo Boutsikaris, Ph.D., J.D.
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September 16, 2005